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IS 10276-2 (1982): Edison screw lampholders, Part 2: Standard data sheets for lamp holders and gauges [ETD 23: Electric Lamps and their Auxiliaries]

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*Indian Standard*  
SPECIFICATION FOR  
EDISON SCREW LAMPHOLDERS  
PART II STANDARD DATA SHEETS FOR  
LAMPHOLDERS AND GAUGES.

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INDIAN STANDARDS INSTITUTION  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

*Indian Standard*

**SPECIFICATION FOR  
EDISON SCREW LAMPHOLDERS**

**PART II STANDARD DATA SHEETS FOR  
LAMPHOLDERS AND GAUGES**

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*Indian Standard*  
**SPECIFICATION FOR**  
**EDISON SCREW LAMPHOLDERS**  
**PART II STANDARD DATA SHEETS FOR**  
**LAMPHOLDERS AND GAUGES**

**0. FOREWORD**

**0.1** This Indian Standard ( Part II ) was adopted by the Indian Standards Institution on 25 August 1982, after the draft finalized by the Electric Lamps and Accessories Sectional Committee had been approved by the Electrotechnical Division Council.

**0.2** This standard ( Part II ) includes a series of standard data sheets for lampholders and gauges. It also specifies the methods to be employed for checking the dimensions with the help of the gauges.

**0.3** This standard is in two parts. Part I covers the requirements and methods of tests for edison screw lampholders and Part II covers the standard data sheets for lampholders and gauges. This part forms a necessary adjunct to Part I and should, therefore, be read in conjunction with Part I of this standard.

**0.4** The reference numbers given to the data sheets are same as those given in the latest version of the IEC Publication 61 ( 1969 ) Lamps caps and holders together with gauges for the control of interchangeability and safety: Part II Lampholders, and Part III Gauges.

**0.5** In the data sheets, reference has been made to the following data sheets for edison screw lamp caps:

- a) 7004-21-7 Screw caps E27
- b) 7004-23-5 Screw caps E14
- c) 7004-24-4 Screw caps E40

These data sheets have been given in IS : 9206-1979\*.

**0.6** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

\*Dimensions for caps for tungsten filament general service electric lamps.

†Rules for rounding off numerical values ( revised ).

## 1. SCOPE

**1.1** This standard ( Part II ) contains the standard data sheets for lamp-holders and gauges necessary for the control of interchangeability and safety of edison screw lampholders.

**1.2** The standard also specifies in the respective data sheets, the method of tests to be employed for checking the dimensions with the gauges.

## 2. STANDARD DATA SHEETS

**2.1** Standard data sheets covered in this standard are as follows:

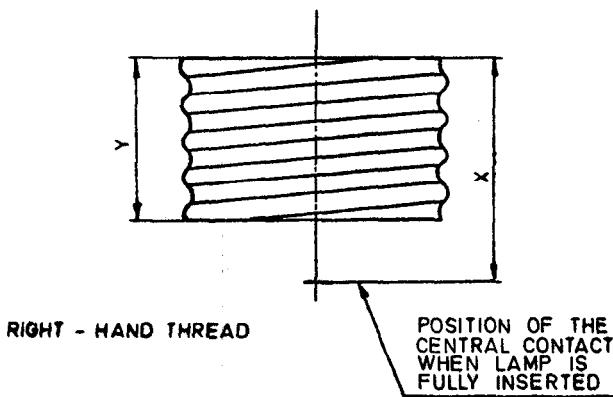
<i>Sl No.</i>	<i>Sheet Number</i>	<i>Description</i>
1.	7005-20-3	Position of holder thread in relation to central contact of the lampholder
2.	7006-21-3	Plug gauge for E27 lampholder for testing contact making
3.	7006-22-3	Plug gauge for E27 lampholder for testing contact making and protection against accidental contact
4.	7006-22A-3	Plug gauge for E27 lampholder for testing protection against accidental contact during insertion
5.	7006-23-2	Plug gauge for E40 lampholder for testing contact making
6.	7006-24-2	Plug gauge for E40 lampholder for testing contact making and protection against accidental contact
7.	7006-25-4	“ Go ” plug gauges for screw threads of lamp-holders E10, E14 and E40
8.	7006-25A-1	“ Go ” plug gauge for E27 lampholders
9.	7006-26-2	“ No Go ” plug gauges for screw threads of lamp-holders E10, E14, E27 and E40
10.	7006-30-2	Plug gauge for E14 lampholder for testing contact making
11.	7006-31-3	Plug gauge for E14 lampholder for testing contact making and protection against accidental contact during insertion.

NOTE -- The last part of the Sheet No. indicates the latest amendment to IEC data sheets.

## POSITION OF HOLDER THREAD IN RELATION TO CENTRAL CONTACT OF THE LAMPHOLDER

Dimensions in millimetres.

The drawing is intended only to indicate the dimensions to be controlled.



The holder-screw shall be positioned in the lampholder so as to conform with dimension X when the lamp is fully inserted.

It is not essential that the whole or any part of the holder-screw be used as an electrical contact.

TYPE	X		Y
	Min.	Max.	Min.
E5	4.5	5.3	—
E10	7.5	9.3	—
E14	12	15	5
E26 (1)	17.07(2)	19.05(2)	7
E27	17 (3)	21 (3)	7
E40	27	32	12

(1) Nearest equivalents in inches:

X min. = 0.672 in, X max. = 0.750 in and Y min. = 0.276 in.

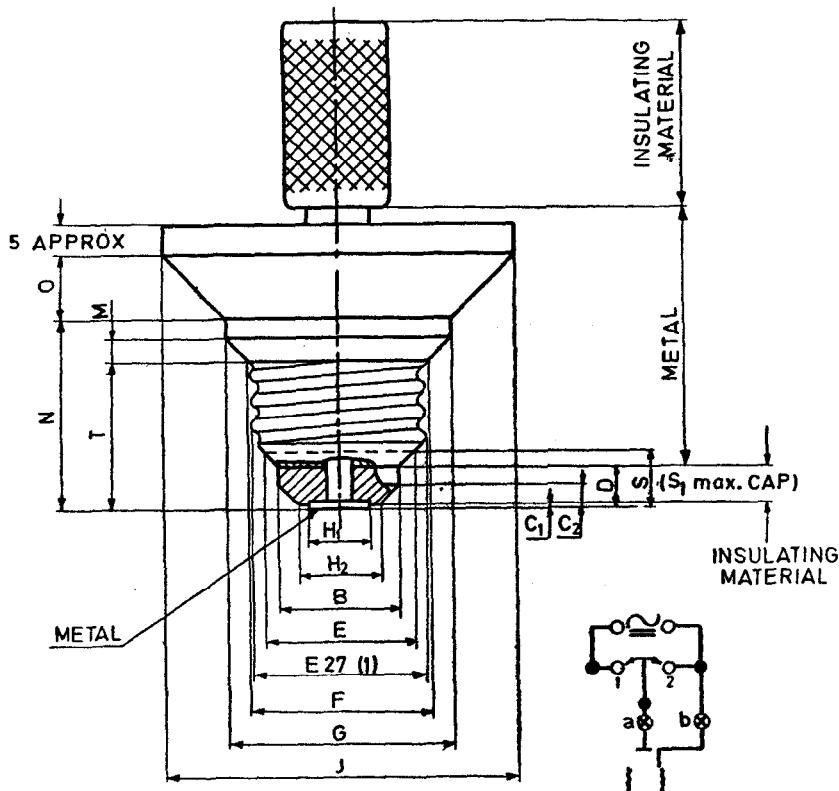
(2) This value is checked with the gauge shown on sheet 7006-25-B

(3) This value is checked with the gauge shown on sheet 7006-25A

**PLUG GAUGE FOR E27 LAMPHOLDER FOR TESTING CONTACT MAKING**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.



(1) The thread of the gauge is made to comply with the maximum dimensions shown for the cap on a finished lamp as illustrated on sheet 7004-21, subject to a tolerance of  $+0.0$   
 $-0.03$

When the switch is in position 1 and the gauge is screwed home in the holder, the indicator lamps shall light.

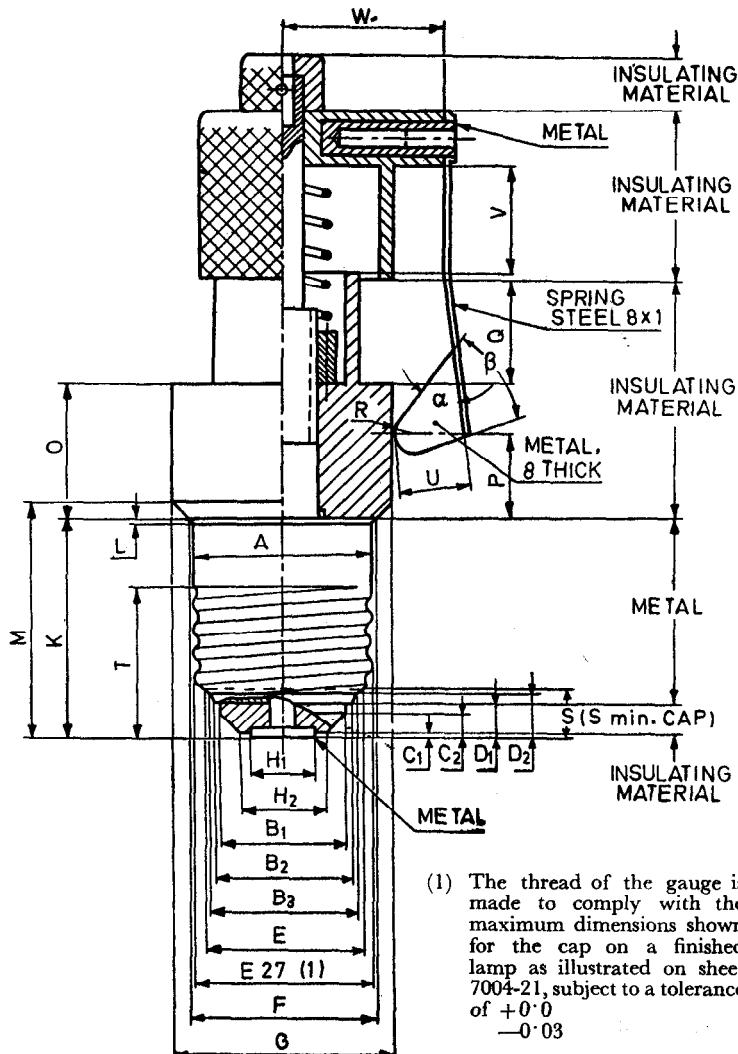
In case of doubt whether the gauge is fully screwed home, a feeler gauge with an approximate thickness of 0.08 mm and a width of 5 mm shall be used to check that clearance exists between the gauge and top of the lampholder.

REFERENCE	DIMENSION	TOLERANCE
B	18.5	+0.03 -0.0
C <sub>1</sub>	0.5	+0.0 -0.02
C <sub>2</sub>	3.5	+0.0 -0.03
D	6.25	+0.05 -0.0
E	23	
F	27.1	+0.05 -0.0
G	34	+0.02 -0.0
H <sub>1</sub>	9.5	+0.02 -0.02
H <sub>2</sub>	12.5	+0.02 -0.0
J	53	+0.03 -0.0
M	3.5	+0.0 -0.02
N	28.3	+0.0 -0.02
O	9.5	+0.0 -0.02
S	8.5	+0.02 -0.0
T	21.5	+0.0 -0.02

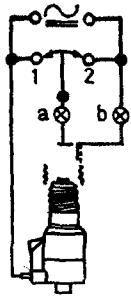
**PLUG GAUGE FOR E27 LAMPHOLDER FOR TESTING CONTACT  
MAKING AND PROTECTION AGAINST ACCIDENTAL CONTACT**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.



(1) The thread of the gauge is made to comply with the maximum dimensions shown for the cap on a finished lamp as illustrated on sheet 7004-21, subject to a tolerance of  $+0.0$   $-0.03$



When the gauge is fully screwed in the holder with the switch in position 1, lamps a and b shall light. When the switch is in position 2, by sliding the test contact as far as it will penetrate into the holder, it shall not make contact and the indicator lamps shall not light.

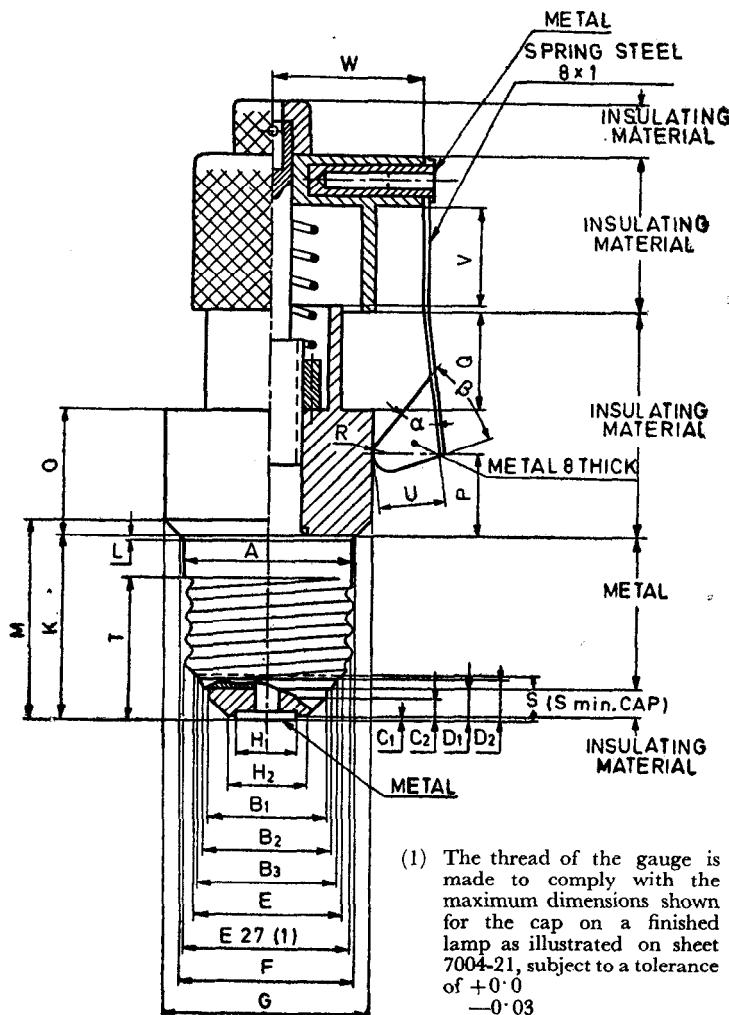
REFERENCE	DIMENSION	TOLERANCE
A	26.1	+0.0 -0.05
B <sub>1</sub>	18.5	+0.03 -0.0
B <sub>2</sub>	20.0	+0.03 -0.0
B <sub>3</sub>	22.0	+0.03 -0.0
C <sub>1</sub>	0.5	+0.0 -0.02
C <sub>2</sub>	3.5	+0.0 -0.03
D <sub>1</sub>	4.75	+0.05 -0.0
D <sub>2</sub>	6.5	+0.05 -0.0
E	23	
F	27.1	+0.0 -0.05
G	32	+0.0 -0.02
H <sub>1</sub>	9.5	+0.02 -0.02
H <sub>2</sub>	12.5	+0.02 -0.0
K	31.3	+0.02 -0.0

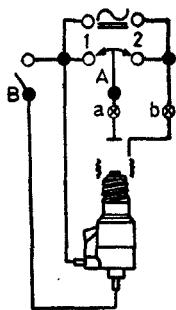
REFERENCE	DIMENSION	TOLERANCE
L	0.5	+0.01 -0.0
M	33.8	+0.0 -0.02
O	19.5	+0.0 -0.1
P	12.5	+0.1 -0.1
Q	15	+0.1 -0.1
R	3	+0.0 -0.05
S	7	+0.0 -0.02
T	21.5	+0.1 -0.1
U	10	+0.1 -0.1
V	15	+0.1 -0.1
W	23	+0.1 -0.1
$\alpha$	45°	+30° -30°
$\beta$	37°	+30° -30°

**PLUG GAUGE FOR E27 LAMPHOLDER FOR TESTING  
PROTECTION AGAINST ACCIDENTAL CONTACT  
DURING INSERTION**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.





With switch A in position 2 and switch B closed, the gauge is screwed into the holder until either of the lamps a or b lights. Switch B is then opened and the test contact is slid as far as it will penetrate into the holder. It shall not make contact and the indicator lamps shall not light.

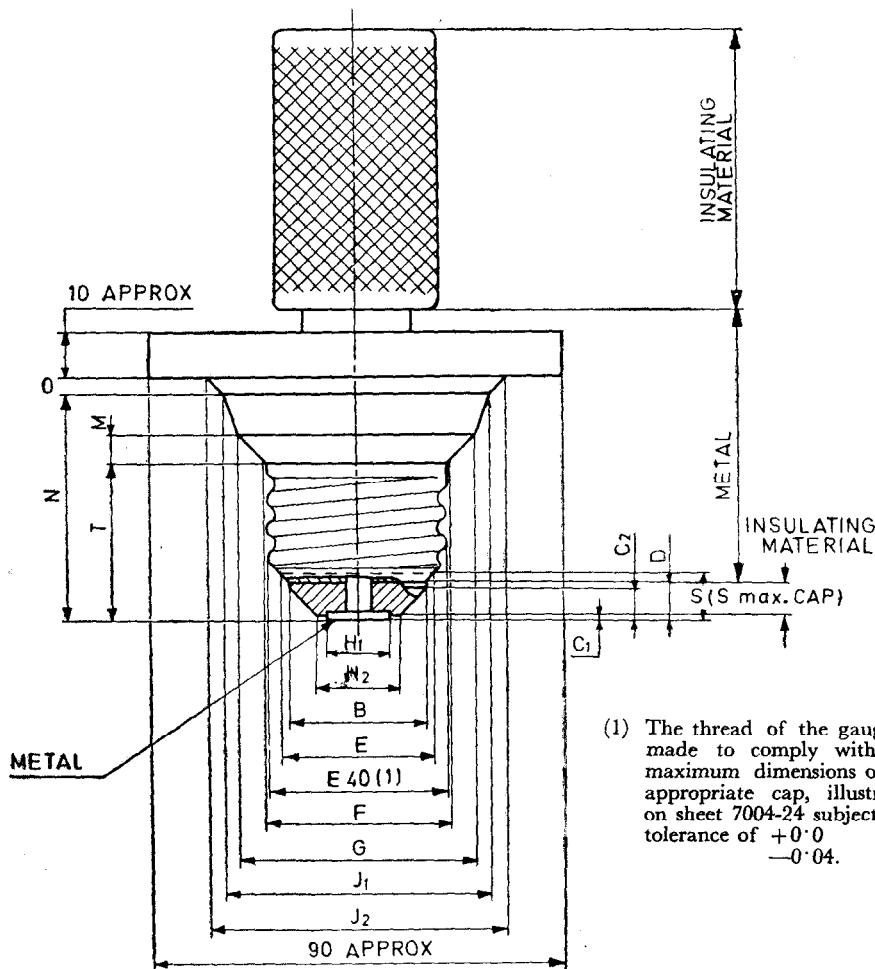
REFERENCE	DIMENSION	TOLERANCE
A	26.1	+0.0 -0.05
B <sub>1</sub>	18.5	+0.03 -0.0
B <sub>2</sub>	20.0	+0.03 -0.0
B <sub>3</sub>	22.0	+0.03 -0.0
C <sub>1</sub>	0.5	+0.0 -0.02
C <sub>2</sub>	3.5	+0.0 -0.03
D <sub>1</sub>	4.75	+0.05 -0.0
D <sub>2</sub>	6.5	+0.05 -0.0
E	23	
F	27.1	+0.0 -0.05
G	32.0	+0.0 -0.02
H <sub>1</sub>	9.5	+0.02 -0.02
H <sub>2</sub>	12.5	+0.02 -0.0
K	28.3	+0.02 -0.0

REFERENCE	DIMENSION	TOLERANCE
L	0.5	+0.01 -0.0
M	30.8	+0.0 -0.02
O	19.5	+0.0 -0.1
P	12.5	+0.1 -0.1
Q	15	+0.1 -0.1
R	2.5	+0.0 -0.05
S	7.0	+0.0 -0.02
T	21.5	+0.1 -0.1
U	10	+0.1 -0.1
V	15	+0.1 -0.1
W	23	+0.1 -0.1
$\alpha$	45°	+30' -30'
$\beta$	37°	+30' -30'

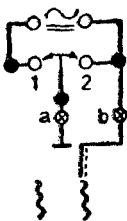
**PLUG GAUGE FOR E40 LAMPHOLDER FOR TESTING  
CONTACT MAKING**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.



- (1) The thread of the gauge is made to comply with the maximum dimensions of the appropriate cap, illustrated on sheet 7004-24 subject to a tolerance of +0.0 -0.04.



When the switch is in position 1 and the gauge is screwed home in the holder, the indicator lamps shall light.

REFERENCE	DIMENSION	TOLERANCE
B	30	+0.03 -0.0
C <sub>1</sub>	0.5	+0.0 -0.05
C <sub>2</sub>	6	+0.0 -0.05
D	8	+0.05 -0.0
E	34	
F	40	+0.05 -0.0
G	52	+0.02 -0.0
H <sub>1</sub>	14	+0.02 -0.02

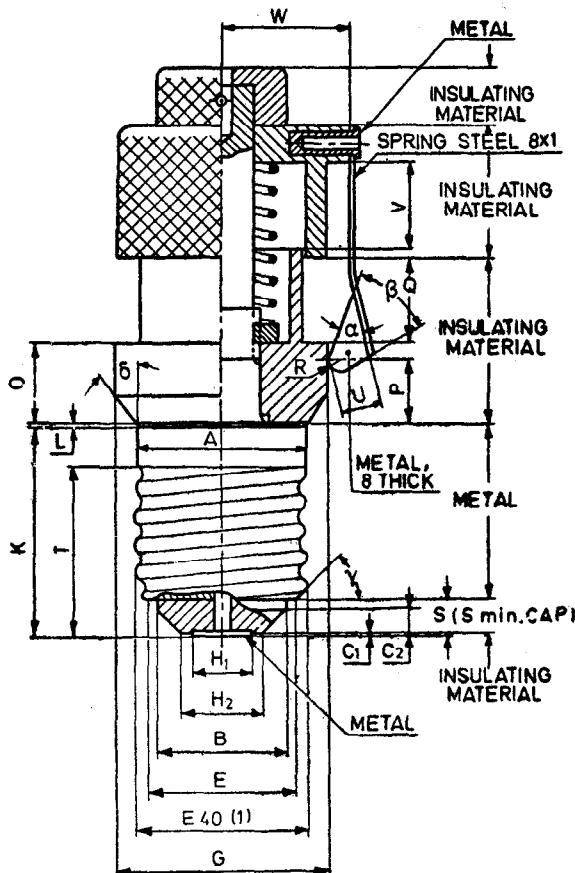
REFERENCE	DIMENSION	TOLERANCE
H <sub>2</sub>	19	+0.02 -0.0
J <sub>1</sub>	58	+0.02 -0.0
J <sub>2</sub>	65	+0.03 -0.0
M	6	+0.0 -0.02
N	49	+0.0 -0.03
O	3.5	+0.0 -0.03
S	10	+0.03 -0.0
T	34	+0.0 -0.02

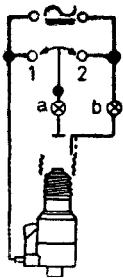
In case of doubt whether the gauge is fully screwed home, a feeler gauge with an approximate thickness of 0.08 mm and width of 5 mm shall be used to check that clearance exists between the gauge and the top of the lampholder.

**PLUG GAUGE FOR E40 LAMPHOLDER FOR TESTING CONTACT  
MAKING AND PROTECTION AGAINST ACCIDENTAL CONTACT**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.





When the gauge is fully screwed in the holder with the switch in position 1, lamps a and b shall light. When the switch is in position 2, by sliding the test contact as far as it will penetrate into the holder it shall not make contact and the indicator lamps shall not light.

REFERENCE	DIMENSION	TOLERANCE
A	39	+0.0 -0.05
B	30.0	+0.03 -0.0
C <sub>1</sub>	0.5	+0.0 -0.05
C <sub>2</sub>	6	+0.0 -0.05
E	34	
G	49	+0.0 -0.02
H <sub>1</sub>	14.0	+0.02 -0.02
H <sub>2</sub>	19.0	+0.02 -0.0
K	47.79	+0.01 -0.0
L	0.71	+0.01 -0.0
O	19	+0.0 -0.1
P	15	+0.1 -0.1

REFERENCE	DIMENSION	TOLERANCE
Q	20	+0.1 -0.1
R	3	+0.0 -0.05
S	8	+0.0 -0.03
T	34	+0.1 -0.1
U	10	+0.1 -0.1
V	20	+0.1 -0.1
W	29.5	+0.1 -0.1
$\alpha$	35°	+30' -30'
$\beta$	37°	+30' -30'
$\gamma$	45°	+10' -10'
$\delta$	35°	+30' -30'

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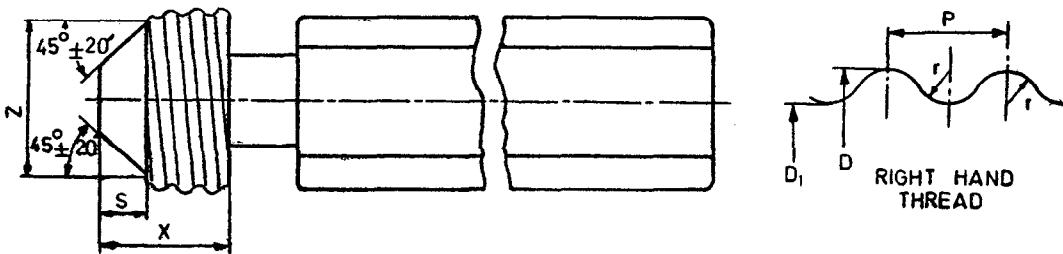
**“ GO ” PLUG GAUGES FOR SCREW THREADS  
OF LAMPHOLDERS E10, E14 AND E40**

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Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauges.

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DIMENSION	E10	E14	E40	TOLERANCE
D	$9.61 +0.0$ $-0.02$	$13.97 +0.0$ $-0.02$	$39.60 +0.0$ $-0.04$	↔
D <sub>1</sub>	$8.59 +0.0$ $-0.02$	$12.37 +0.0$ $-0.02$	$36.00 +0.0$ $-0.04$	↔
P	1.814	2.822	6.350	—
S	2.50	3.50	8.00	$+0.0$ $-0.03$
X	8.00	15.00	32.00	$+0.03$ $-0.0$
Z	8.00	12.00	34.00	—
r	0.531	0.822	1.850	—

**PURPOSE** — To control the minimum dimensions of the screw threads of a lampholder.

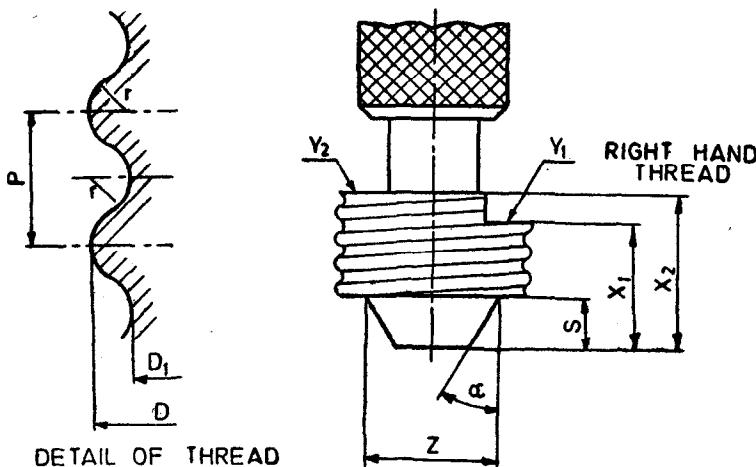
**TESTING** — The thread of the holder shall be assumed to be correct if the gauge can be screwed in smoothly.

**NOTE** — The dimension "X" has been designed to coincide with "X" max. on sheet 7005-20 as a guide to indicate where the holder thread shall terminate when the gauge is fully inserted.

### “ GO ” PLUG GAUGE FOR E27 LAMPHOLDERS

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.



The sharp part of the edge of the thread at the underside of the gauge shall be broken with a radius of approximately 0.5 mm.

**PURPOSE** — To check the minimum dimensions of the lampholder screw thread shown on sheet 7004-21 and dimension X shown on sheet 7005-20.

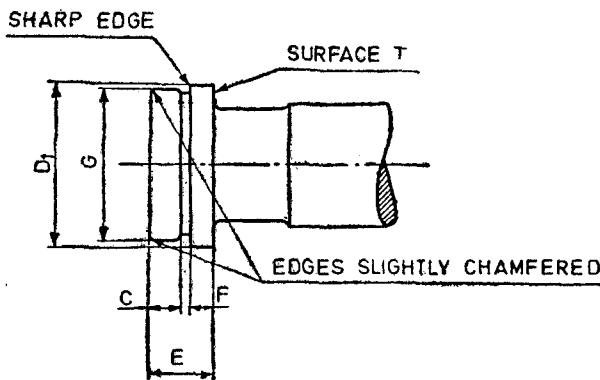
**TESTING** — It shall be possible to screw the gauge into the lampholder smoothly. When the gauge is screwed in as far as it will go, the rim of the screwed shell of the lampholder shall be co-planar with, or project beyond, surface Y<sub>1</sub>, but it shall not project beyond surface Y<sub>2</sub>.

REFERENCE	DIMENSION	TOLERANCE	LIMIT AFTER WEAR
D	26.55	+0.0 -0.02	26.52
D <sub>1</sub>	24.36	+0.0 -0.02	24.33
P	3.629	—	—
r	1.025	—	—
S	7	+0.0 -0.1	—
X <sub>1</sub>	17.0	+0.0 -0.03	—
X <sub>2</sub>	21.0	+0.03 -0.0	—
Z	18	+0.1 -0.1	—
$\alpha$	30	+30' -30'	—

**“ NOT GO ” PLUG GAUGES FOR SCREW THREADS OF THE LAMPHOLDERS E10, E14, E27 AND E40**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauges.



DIMEN- SION	E10	E14	E27	E40	TOLER- ANCE				
C	2·0	4·0	4·5	8·0	+0·0 -0·2				
D <sub>1</sub>	8·76	12·56	24·66	36·45	+0·01 -0·0				
E	5·0	8·0	10·0	17·0	+0·0 -0·2				
F	2·0	3·0	4·0	7·0	+0·0 -0·1				
G*	8·55	12·33	24·31	35·95	+0·0 -0·04				
Weight kg	Min 0·063	Max 0·077	Min 0·108	Max 0·132	Min 0·293	Max 0·357	Min 0·630	Max 0·770	

\*For centering purposes only

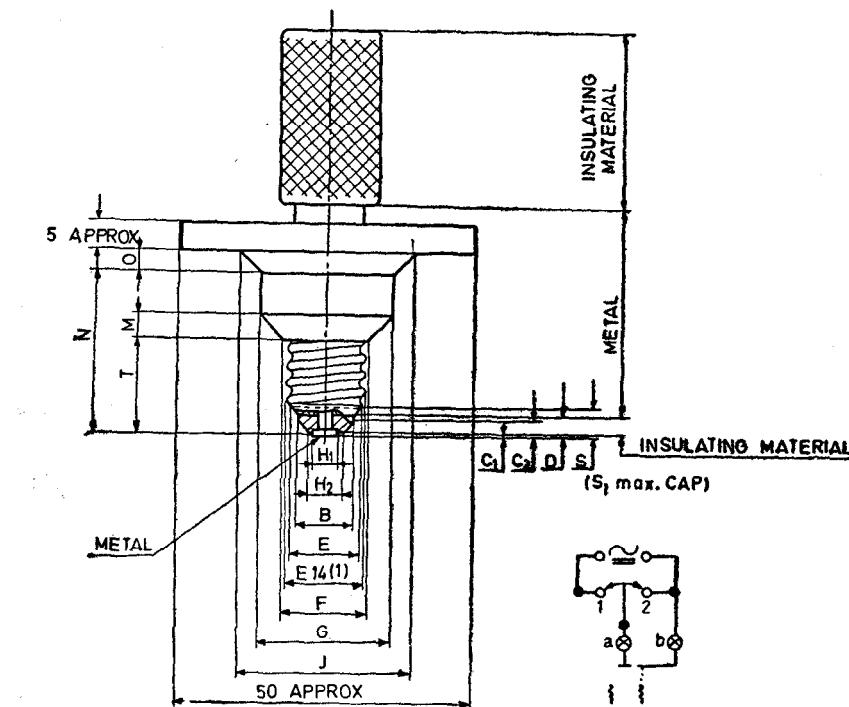
**PURPOSE** — To control the maximum minor diameter D<sub>1</sub> of the female screw threads.

**TESTING** — The screw thread of the holder shall be assumed to be correct if the gauge does not enter by its own weight so far that the thread protrudes beyond surface T.

**PLUG GAUGE FOR E14 LAMPHOLDER FOR  
TESTING CONTACT MAKING**

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.



(1) The thread of the gauge is made to comply with the maximum dimensions of the appropriate cap, illustrated on sheet 7004-23, subject to a tolerance of  $+0.0$   
 $-0.03$

When the switch is in position 1 and the gauge is screwed home in the holder, the indicator lamps shall light.

In case of doubt whether the gauge is fully screwed home, a feeler gauge with an approximate thickness of 0.08 mm and width of 5 mm shall be used to check that clearance exists between the gauge and the top of the lampholder.

NOTE — The application of this gauge is restricted to lampholders for lighting fittings equipped with the following lamps when these are fitted with E14 caps, in accordance with sheet 7004-23:

Candle lamps  
Round bulb lamps  
Domestic tubular lamps  
Pygmy lamps

REFERENCE	DIMENSION	TOLERANCE
B	10	+0.02 -0.0
C <sub>1</sub>	0.5	+0.0 -0.05
C <sub>2</sub>	2.5	+0.0 -0.05
D	3.5	+0.05 -0.0
E	12	
F	13.97	+0.05 -0.0
G	22	+0.02 -0.0
H <sub>1</sub>	4.8	+0.02 -0.02

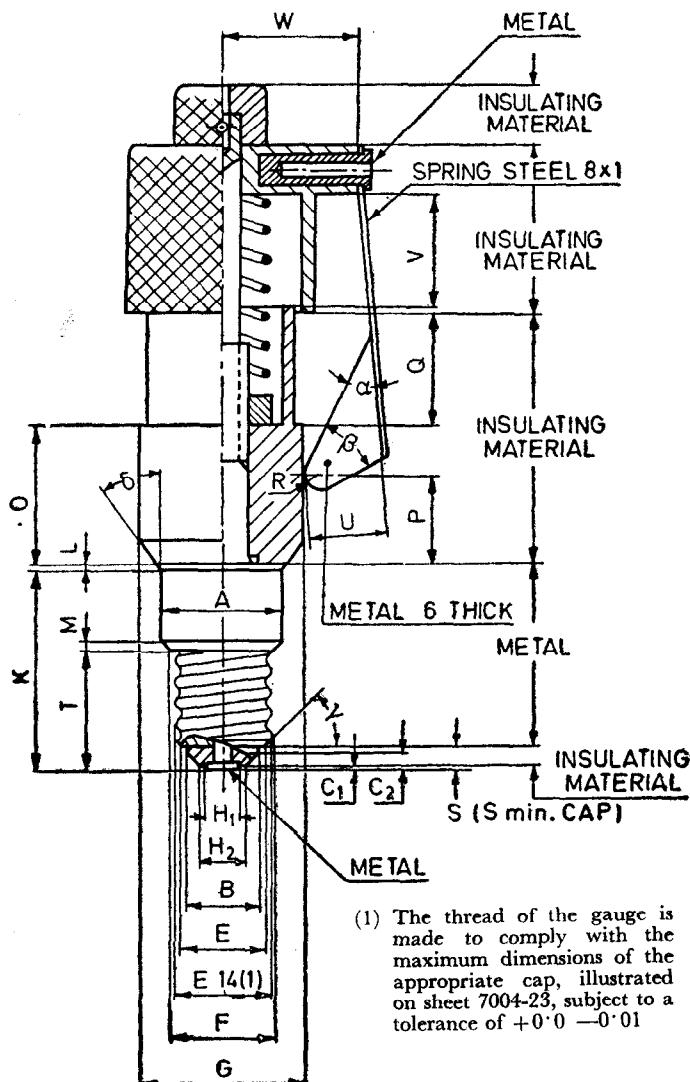
REFERENCE	DIMENSION	TOLERANCE
H <sub>2</sub>	6	+0.02 -0.0
J	29	+0.03 -0.0
M	4.02	+0.0 -0.02
N	27.15	+0.0 -0.03
O	3.5	+0.0 -0.03
S	4.5	+0.03 -0.0
T	16	+0.0 -0.02

**PLUG GAUGE FOR E14 LAMPHOLDER FOR TESTING CONTACT  
MAKING AND PROTECTION AGAINST ACCIDENTAL CONTACT  
DURING INSERTION**

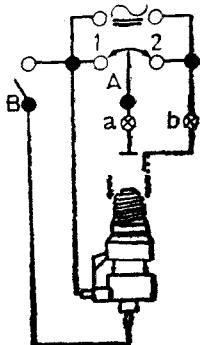
This gauge is for use in countries where testing of protection against accidental contact during insertion of the lamp is compulsory.

Dimensions in millimetres.

The drawing is intended only to illustrate the essential dimensions of the gauge.



(1) The thread of the gauge is made to comply with the maximum dimensions of the appropriate cap, illustrated on sheet 7004-23, subject to a tolerance of  $+0.0 -0.01$



With switch A in position 2 and switch B closed, the gauge is screwed into the holder until either of the lamps a or b lights. Switch B is then opened and the test contact is slid as far as it will penetrate into the holder. It shall not make contact and the indicator lamps shall not light.

REFERENCE	DIMENSION	TOLERANCE
A	17.1	+0.0 -0.05
B	10	+0.03 -0.0
C <sub>1</sub>	0.5	+0.0 -0.05
C <sub>2</sub>	2.5	+0.0 -0.05
E	12	
F	13.97	+0.0 -0.05
G	22	+0.0 -0.02
H <sub>1</sub>	4.8	+0.02 -0.02
H <sub>2</sub>	6	+0.02 -0.0
K	27.15	+0.01 -0.0
L	0.71	+0.01 -0.0
M	1.57	+0.05 -0.0
O	19	+0.0 -0.1

REFERENCE	DIMENSION	TOLERANCE
P	12	+0.1 -0.1
Q	15	+0.1 -0.1
R	2	+0.0 -0.05
S	3.5	+0.0 -0.03
T	16	+0.1 -0.1
U	10	+0.1 -0.1
V	15	+0.1 -0.1
W	18.5	+0.1 -0.1
$\alpha$	35°	+30' -30'
$\beta$	37°	+30' -30'
$\gamma$	45°	+10' -10'
$\delta$	35°	+30' -30'

(Continued from page 2)

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